

Amendments to the Specification

(1) Please replace the paragraph at page 12, lines 14-21, with the following paragraph:

At every step of this iterative forward search, the mutual information, i.e., the mutual information content of the combination of features and the quality label, is maximized. The definition of, and information on, mutual information will be found in the relevant literature. The quantumSEL software routine from the quantum software package supplied by the firm quantiom bioinformatics GmbH i.G. may be employed for computing this mutual information. Information on that software and the company are publicly available at <http://www.quantiom.de>.

(2) Please replace the abstract with the following abstract. Applicant also attaches a clean version of the abstract to this paper.

Disclosed is a A method for determining the quality, expressed in terms of a quality value, of an biomolecule sample, based on measured data of the biomolecule sample, by extracting a number of prescribed features from the measured data using data analysis, and determining the quality value from the extracted features using a quality algorithm.